level generalization as well as a group level generalization. This is called the nested

generalization. Item level generalization handles the varying number of items within each group

whereas group level generalization handles the varying number of groups in the table.

Figure 15 illustrate a seventh generalizer example for generalizing multilevel nested

5   generalization with any combinations in accordance with the invention. In particular, a piece of

content 290 may include multilevel nested groups as shown in Figure 15. The selection of

content and the generalized content is not shown for this example, but can be inferred from the

above examples. It is also possible to generalize any structure, and nest generalization an

unlimited number of times. For example, a group structure is generalized which contains two

10   groups, an atomic and a generalized group as children. One group of the two contains two

atomics, while the other contains a group which contains a generalized atomic and a normal

atomic. The generalized group contains a generalized group which contains two atomics.

While the foregoing has been with reference to a particular embodiment of the invention,

it will be appreciated by those skilled in the art that changes in this embodiment may be made

15   without departing from the principles and spirit of the invention.